

WHAT IS CLAIMED IS:

1. A multimedia copy control system for controlling
a copy of a digital data recording medium in which digital
contents data is stored and from which the digital contents data
5 is reproduced and recorded to another recording medium for
copying, wherein the digital contents data stored in the digital
data recording medium includes a first copy control information
of a digital format and a second copy control information of
an analog embedded format, said system comprising:

10 an encryption decoder adapted to decrypt reproduction
output data from the digital data recording medium to judge
whether the reproduction output data is encrypted data;

a first copy control detector adapted to detect the first
copy control information from the decrypted reproduction data;

15 a contents data decoder adapted to extract the digital
contents data from the decrypted reproduction data; and

a second copy control detector adapted to detect the
second copy control information from the extracted digital
contents data,

20 wherein encryption of the reproduction output data from
the recording medium is decrypted and judged for each digital
contents unit under reproduction, and in the case where said
first copy control detector detects the first copy control
information, the reproduction of the digital contents data is
25 controlled based on the first copy control information, and in

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the case where said first copy control detector detects no first copy control information, the reproduction of the digital contents data is controlled based on the second copy control information.

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2. The multimedia copy control system as claimed in claim 1, wherein each of the first and second copy control information includes three copy control states of copy free, copy permission with restriction and copy inhibition, and in the case where the copy control state of the first copy control information is the copy free state, the reproduction is controlled to be inhibited, and in the case of the copy permission with restriction and copy inhibition states, the reproduction is controlled to be permissive, and

15 in the case where the copy control state of the second copy control information is the copy free state, the reproduction is controlled to be permissive, and in the case of the copy permission with restriction and copy inhibition states, the reproduction is controlled to be inhibited.

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3. The multimedia copy control system as claimed in claim 1, wherein said recording medium stores the first and second copy control information being allocated in pair for each digital contents unit.

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4. The multimedia copy control system as claimed in claim 1 further comprising;

analog output control portion adapted to generate analog contents data from the extracted digital contents data;

5 digital output control portion adapted to convert the extracted digital contents data to a specified output format data to be generated therefrom;

wherein the digital contents data outputted via said digital output control portion includes both the first and
10 second copy control information, and the analog contents data outputted via said analog output control portion includes only the second copy control information.

5. A multimedia copy control method for controlling
15 a copy of a digital data recording medium in which digital contents data is stored and from which the digital contents data is reproduced and recorded to another recording medium for copying, wherein the digital contents data stored in the digital data recording medium includes a first copy control information
20 of a digital format and a second copy control information of an analog embedded format, said method comprising:

decrypting reproduction output data from the digital data recording medium to judge whether the reproduction output data is encrypted data;

25 detecting the first copy control information from the

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decrypted reproduction data;

extracting the digital contents data from the decrypted reproduction data; and

detecting the second copy control information from the
5 extracted digital contents data,

wherein encryption of the reproduction output data from the recording medium is decrypted and judged for each digital contents unit under reproduction, and in the case of detecting the first copy control information, the reproduction of the
10 digital contents data is controlled based on the first copy control information, and in the case of detecting no first copy control information, the reproduction of the digital contents data is controlled based on the second copy control information.

15 6. The multimedia copy control method as claimed in claim 5, wherein each of the first and second copy control information includes three copy control states of copy free, copy permission with restriction and copy inhibition, and in the case where the copy control state of the first copy control
20 information is the copy free state, the reproduction is controlled to be inhibited, and in the case of the copy permission with restriction and copy inhibition states, the reproduction is controlled to be permissive, and

25 in the case where the copy control state of the second copy control information is the copy free state, the

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reproduction is controlled to be permissive, and in the case of the copy permission with restriction and copy inhibition states, the reproduction is controlled to be inhibited.

5 7. An optical disk reproduction device for
reproducing an optical disk in which digital contents data is
stored and from which the digital contents data is reproduced
for copying, wherein the digital contents data stored in the
10 optical disk includes a first copy control information of a
digital format and a second copy control information of an analog
embedded format, said reproduction device comprising:

 a stream data extracting unit adapted to extract stream
data from the reproduction output data of the optical disk;

15 an encryption decoder adapted to decrypt the extracted
reproduction stream data to judge whether the reproduction
stream data is encrypted data;

 a first copy control detector adapted to detect the first
copy control information from the decrypted reproduction-stream
data;

20 a contents decoder adapted to extract and decode the
digital contents data from the decrypted reproduction stream
data;

 a second copy control detector adapted to detect the
second copy control information from the extracted digital
25 contents data;

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an analog output controller adapted to output analog contents data from the extracted digital contents data;

a digital output controller adapted to convert the extracted digital contents data to a specified output format data to be generated therefrom; and

a system controller which receives the first and second copy control information and controls said analog output controller and said digital output controller,

wherein encryption of the reproduction output data from the optical disk is decrypted and judged for each digital contents unit under reproduction, and in the case where said first copy control detector detects the first copy control information, the reproduction of the digital contents data is controlled based on the first copy control information, and in the case where said first copy control detector detects no first copy control information, the reproduction of the digital contents data is controlled based on the second copy control information.

8. The optical disk reproduction device as claimed in claim 7, wherein when a reproduction permission condition is not met, said system controller controls said analog output controller and said digital output controller to restrict the reproduction based on at least one of the first and second copy control information.

9. The optical disk reproduction device as claimed in claim 7, wherein each of the first and second copy control information includes three copy control states of copy free, copy permission with restriction and copy inhibition, and in the case where the copy control state of the first copy control information is the copy free state, the reproduction is controlled to be inhibited, and in the case of the copy permission with restriction and copy inhibition states, the reproduction is controlled to be permissive, and

in the case where the copy control state of the second copy control information is the copy free state, the reproduction is controlled to be permissive, and in the case of the copy permission with restriction and copy inhibition states, the reproduction is controlled to be inhibited.

10. The optical disk reproduction device as claimed in claim 7, wherein the digital contents data outputted via said digital output control portion includes both the first and second copy control information, and the analog contents data outputted via said analog output control portion includes only the second copy control information.

11. A digital data reproducing and recording system which is a connection combination of a recording medium

reproduction device for reproducing digital data of a recording medium and a recording medium recording device for recording the reproduced digital data to another recording medium, adapted to control a multimedia copy of the recording medium,

5 wherein the digital contents data stored in the recording medium includes a first copy control information of a digital format and a second copy control information of an analog embedded format,

said reproduction device comprising:

10 an encryption decoder adapted to decrypt reproduction stream data output from the recording medium to judge whether the reproduction stream data is encrypted data;

15 a first copy control detector adapted to detect the first copy control information from the decrypted reproduction stream data;

a contents decoder adapted to extract the digital contents data from the decrypted reproduction stream data;

20 a second copy control detector adapted to detect the second copy control information from the extracted digital contents data;

an analog output control portion adapted to generate analog contents data from the extracted digital contents data; and

25 a digital output control portion adapted to convert the extracted digital contents data to a specified output format

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data to be generated therefrom,

wherein, in the case where said reproduction device and said recording device are digital-connected via said digital output control portion, the digital contents data reproduced from said reproduction device includes both the first and second copy control information, and in the case where said reproduction device and said recording device are analog-connected via said analog output control portion, the analog contents data reproduced from said reproduction device includes only the second copy control information.

12. The digital data reproducing and recording system as claimed in claim 11, wherein each of the first and second copy control information includes three copy control states of copy free, copy permission with restriction and copy inhibition, and in the case where the copy control state of the first copy control information is the copy free state, the reproduction is controlled to be inhibited, and in the case of the copy permission with restriction and copy inhibition states, the reproduction is controlled to be permissive, and

in the case where the copy control state of the second copy control information is the copy free state, the reproduction is controlled to be permissive, and in the case of the copy permission with restriction and copy inhibition states, the reproduction is controlled to be inhibited.

13. A digital data recording medium adapted for multimedia copy control, said recording medium comprising:

at least one contents data storage region storing digital contents data which includes first copy control information of a digital format and second copy control information of an analog embedded format,

said storage first and second copy control information being allocated in pair for each digital contents unit,

wherein the digital contents data stored in the recording medium is adapted to be reproduced from the digital data recording medium so that the reproduced data is decrypted for use in judging whether the reproduction output data is encrypted data,

the decrypted reproduction data being adapted for use in detecting the first copy control information and extracting the digital contents data therefrom, and

the extracted digital contents data being adapted for use in detecting the second copy control information.

14. The digital data recording medium as claimed in claim 13, wherein each of the first and second copy control information includes three copy control states of copy free, copy permission with restriction and copy inhibition, and in the case where the copy control state of the first copy control

information is the copy free state, the reproduction is controlled to be inhibited, and in the case of the copy permission with restriction and copy inhibition states, the reproduction is controlled to be permissive, and

- 5 in the case where the copy control state of the second copy control information is the copy free state, the reproduction is controlled to be permissive, and in the case of the copy permission with restriction and copy inhibition states, the reproduction is controlled to be inhibited.

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